

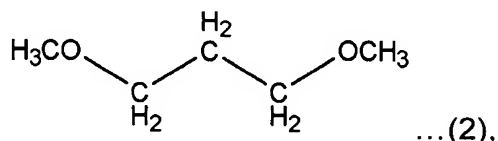
AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) An organic electrolytic solution for a lithium sulfur battery, comprising a lithium salt and an organic solvent,

wherein the organic solvent contains a compound of the formula (2) below and an isomer thereof, a polyglyme, and a dioxolane,



and the amount of the polyglyme and the dioxolane is in a range of 5-95% by volume, and the amount of the compound of said formula (2) or an isomer thereof is in the range of 5-95% by volume based on the total volume of the organic solvent, and the polyglyme and the dioxolane are mixed in the ratio of 1:9-9:1 by volume,

wherein the polyglyme is selected from the group consisting of diethyleneglycol dimethylether (CH₃(OCH₂CH₂)₂OCH₃), diethyleneglycol diethylether (C₂H₅(OCH₂CH₂)₂OC₂H₅), triethyleneglycol dimethylether (CH₃(OCH₂CH₂)₃OCH₃), and triethyleneglycol diethylether (C₂H₅(OCH₂CH₂)₃OC₂H₅),

wherein the dioxolane is selected from the group consisting of 1,3-dioxolane, 4,5-diethyl-dioxolane, 4,5-dimethyl-dioxolane, 4-methyl-1,3-dioxolane, and 4-ethyl-1,3-dioxolane.

2-7. (Canceled).

8. (Previously Presented) The organic electrolytic solution of claim 1, wherein the organic electrolytic solution further contains at least one selected from the group consisting of sulfolane, dimethoxyethane, and diethoxyethane.

9. (Original) The organic electrolytic solution of claim 1, wherein the lithium salt has a concentration of 0.5-2.0M.

10. (Original) A lithium sulfur battery comprising:
a cathode that contains sulfur or a sulfur compound;
an anode;
a separator interposed between the cathode and the anode; and
the organic electrolytic solution of claim 1.

11. (Original) The lithium sulfur battery of claim 10, wherein the cathode is formed of at least one selected from the group consisting of a simple substance sulfur, Li_2S_n where $n \geq 1$, kasolite containing Li_2S_n where $n \geq 1$, organo-sulfur, and a carbon-sulfur composite polymer expressed as $(\text{C}_2\text{S}_x)_n$ where x ranges from 2.5 to 50 and $n \geq 2$.

12. (Original) The lithium sulfur battery of claim 10, wherein the anode is formed as a lithium metal electrode, a lithium-metal alloy electrode, a lithium-inert sulfur composite electrode, a carbonaceous electrode, or a graphite electrode.

13-18. (Canceled).

19. (Currently Amended) A lithium sulfur battery comprising:
a cathode that contains sulfur or a sulfur compound;
an anode;
a separator interposed between the cathode and the anode; and
the organic electrolytic solution of claim [[4]] 1.

20. (Original) The lithium sulfur battery of claim 19, wherein the cathode is formed of at least one selected from the group consisting of a simple substance sulfur, Li_2S_n where $n \geq 1$, kasolite containing Li_2S_n where $n \geq 1$, organo-sulfur, and a carbon-sulfur composite polymer expressed as $(\text{C}_2\text{S}_x)_n$ where x ranges from 2.5 to 50 and $n \geq 2$.

21. (Original) The lithium sulfur battery of claim 19, wherein the anode is formed as a lithium metal electrode, a lithium-metal alloy electrode, a lithium-inert sulfur composite electrode, a carbonaceous electrode, or a graphite electrode.